

*This listing of claims will replace all prior versions, and listings of the claims in the application:*

1. (Currently Amended) A canister assembly for capturing and storing fuel vapors from a device, comprising: a housing including: a cartridge chamber, a housing chamber, and a ~~one of a~~ plurality of cartridges;

the cartridge chamber fluidly connected to the housing chamber,

the cartridge sealably assembled ~~therein~~ within the cartridge chamber;

wherein the ~~one of the plurality~~ of cartridges is operable to capture and store at least a portion of the fuel vapors from the device. ~~and is selected based upon a measure of the fuel vapors from the device generated during predetermined conditions.~~

2. (Currently Amended) The canister ~~5~~ of claim ~~1-22~~, wherein the cartridge sealably assembled within the cartridge chamber comprises: :

the housing ~~10~~ comprises including an air inlet 12 fluidly connected to the cartridge chamber;

said cartridge chamber having and a sealing surface 50 in the interior portion substantially adjacent the air inlet 12; wherein a first end 31 of each of the ~~one of the~~ plurality of interchangeable cartridges-20 designs is fluidly sealed to the sealing surface 50, such that substantially all fluid communication between the air inlet 12 ~~to the canister and the cartridge chamber~~ occurs through the first end 31 of the one of the plurality of interchangeable cartridges 20 designs.

3. (Currently Amended) The canister ~~5~~ of claim 2, wherein the housing ~~10~~ further comprises a purge outlet 14, and a vapor inlet 18; and wherein the purge outlet 14 and the vapor inlet 18 are in fluid communication with a second end 33 of any the one of the plurality of interchangeable cartridges-20 designs.

4. (Cancelled)

5. (Cancelled)

6. (Currently Amended) The canister 5 of claim 3, wherein ~~one of a first~~ the plurality of interchangeable cartridge designs 40 ~~of the plurality of cartridges 20~~ comprises a storage chamber 22 containing a predetermined quantity of adsorption material.

7. (Currently Amended) The canister of claim 4-6, wherein the canister 5 ~~with the first cartridge 40 comprising the storage chamber 22 containing the predetermined quantity of adsorption material~~ is operable to adsorb substantially all of the quantity of fuel vapors generated by the device when the predetermined conditions comprise a two-day diurnal test plus a hot soak.

8. (Currently Amended) The canister 5 of claim 3, wherein ~~a second~~ the interchangeable cartridge design 42 ~~of the plurality of cartridges 20~~ comprises a storage chamber 22 containing a predetermined quantity of adsorption material and a hydrocarbon scrubber ~~24~~.

9. (Currently Amended) The canister 5 of claim 8, wherein the canister 5 ~~with the second cartridge 42 comprising the storage chamber 22 containing the predetermined quantity of adsorption material and the hydrocarbon scrubber 24~~ is operable to adsorb substantially all of the quantity of fuel vapors generated by the device when the predetermined conditions comprise a three-day diurnal test plus a hot soak.

10. (Currently Amended) The canister 5 of claim 9, wherein the hydrocarbon scrubber 24 is operable to adsorb fuel vapor bleed emissions.

11. (Currently Amended) The canister 5 of claim 1, wherein each ~~one of the plurality of cartridges 20~~ is interchangeable in the housing 40.

12. (Currently Amended) The canister 5 of claim 2, wherein there is at least one seal device 30 sealably engaged between the first end 31 of the ~~one of the plurality of cartridges 20~~ and the sealing surface 50 molded into the interior portion of the cartridge chamber of the housing 40.

13. (Currently Amended) The canister 5 of claim 3, further comprising a the housing chamber 46 operable to provide a fluid conduit for fluid communication between the purge outlet 44 and the vapor inlet 48 and the second end 33 of the one of the ~~plurality of adsorbing~~ interchangeable cartridges 20 designs.

14. (Currently Amended) The canister 5 of claim 13, wherein the housing chamber 46 contains a predetermined quantity of adsorption material operable to adsorb at least a substantial portion of the quantity of fuel vapors generated by the device during the predetermined conditions.

15. (Currently Amended) The canister 5 of claim 1, wherein the device comprises a motorized vehicle.

16. (Currently Amended) The canister 5 of claim 1, wherein the device comprises a hand-held device including an internal combustion engine.

17. (Currently Amended) The canister 5 of claim 1, wherein the device comprises a stationary internal combustion engine with a fuel source.

18. (Currently Amended) A method to assemble a canister 5 for adsorbing fuel vapors generated by a device, comprising:

selecting one of a plurality of interchangeable cartridges 20 designs based upon a quantity of fuel vapors generated by the device under predetermined conditions; and,

assembling the selected one of the plurality of cartridges 20 to a cartridge chamber of a housing 40 of the canister 5.

19. (Currently Amended) The method of claim 18, wherein assembling the selected one of the plurality of interchangeable cartridges 20 designs to the cartridge chamber of the housing 40 of the canister 5 comprises:

inserting a first end 34 of the selected one of the plurality of interchangeable cartridges 20 designs into the cartridge chamber of the housing 40 until the first end 34 sealably engages a sealing surface 50 of the cartridge chamber of the housing 40; and,

attaching a second end 33 of the selected one of the plurality of interchangeable cartridges 20 designs to the cartridge chamber of the housing 40.

20. (Currently Amended) The method of claim 19, wherein selecting one of the plurality of interchangeable cartridges 20 designs based upon the quantity of fuel vapors generated by the device under predetermined conditions comprises selecting a first cartridge comprising a predetermined quantity of adsorption material when the predetermined conditions comprise a two-day diurnal test plus a hot soak.

21. (Currently Amended) The method of claim 19, wherein selecting one of the plurality of interchangeable cartridges 20 designs based upon the quantity of fuel vapors generated by the device under predetermined conditions comprises selecting a second cartridge comprising a predetermined quantity of adsorption material and a hydrocarbon scrubber when the predetermined conditions comprise three-day diurnal test plus a hot soak.

22. (New claim) The canister assembly of claim 1, wherein the cartridge comprises any one of a plurality of interchangeable cartridge designs.

23. (New claim) The canister assembly of claim 22, wherein the cartridge chamber comprises an opening within the housing operable to house one of the plurality of interchangeable cartridge designs.

24. (New Claim) A canister assembly for capturing and storing fuel vapors from a device, comprising a housing including: a cartridge chamber, a housing chamber, a cartridge, and, an air inlet fluidly connected to the cartridge chamber; wherein:

the cartridge, comprising any one of a plurality of interchangeable cartridge designs, is sealably assembled within the cartridge chamber;

the cartridge chamber, comprising an opening within the housing operable to house any one of the plurality of interchangeable cartridge designs and a sealing surface in the interior portion substantially adjacent the air inlet, is fluidly connected to the housing chamber;

and,

a first end of each of the plurality of interchangeable cartridge designs fluidly sealed to the sealing surface; wherein substantially all fluid communication between the air inlet and the cartridge chamber occurs through the first end of the one of the plurality of interchangeable cartridge designs.